

ABSTRACT OF THE DISCLOSURE

Providing secure content-based user experience enhancement in a player device for rendering digital content includes accepting encrypted digital content, decrypting the encrypted digital content into decrypted digital content, downsampling the decrypted digital content into downsampled digital content; and processing the downsampled digital content by an enhancement module to provide the user experience enhancement. The system protects content being rendered by a player application even when the content is also sent to an enhancement module such as a plug-in. The original content is protected by only transferring a version of the content to the enhancement module that is downsampled. That is, the original high fidelity, high value content is never transferred to the untrusted enhancement module. Instead, the content is downsampled into a lower fidelity form that it is still useful for the purposes of enhancement module processing, but is not useful or desirable for other purposes (such as normal rendering of the content for enjoyment by the user).